

SEQ ID 2 1 ATG TTG CAG ATG GCT GGG CAG TGC TOC CAA AAT GAA TAT TTT GAC AGT TTG TTG CAT GCT  
 SEQ ID 1 1▶ M L Q M A G Q C S Q N E Y F D S L L L H A  
 61 TGC ATA OCT TGT CAA CTT OGA TGT TCT TCT AAT ACT OCT OCT CTA ACA TGT CAG OGT TAT  
 21▶ C I P C Q L R C S S N T P P L T C Q R Y  
 121 TGT AAT GCA AGT GTG ACC AAT TCA GTG AAA GGA ACG AAT GCG ATT CTC TGG ACC TGT TTG  
 41▶ C N A S V T N S V K G T N A I L W T C L  
 181 GGA CTG AGC TTA ATA ATT TCT TTG GCA GTT TTC GTG CTA ATG TTT TTG CTA AGG AAG ATA  
 61▶ G L S L I I S L A V F V L M F L L R K I  
 241 AGC TCT GAA OCA TTA AAG GAC GAG TTT AAA AAC ACA GGA TCA GGT CTC CTG GGC ATG GCT  
 81▶ S S E P L K D E F K N T G S G L L G M A  
 301 AAC ATT GAC CTG GAA AAG AGC AGG ACT GGT GAT GAA ATT ATT CTT COG AGA GGC CTC GAG  
 101▶ N I D L E K S R T G D E I I L P R G L E  
 361 TAC ACG GTG GAA GAA TGC AOC TGT GAA GAC TGC ATC AAG AGC AAA COG AAG GTC GAC TCT  
 121▶ Y T V E C T C E D C I K S K P K V D S  
 421 GAC CAT TGC TTT OCA CTC OCA GCT ATG GAG GAA GGC GCA ACC ATT CTT GTC ACC ACG AAA  
 141▶ D H C F P L P A M E E G A T I L V T T K  
 481 ACG AAT GAC TAT TGC AAG AGC CTG OCA GCT GCT TTG AGT GCT ACG GAG ATA GAG AAA TCA  
 161▶ T N D Y C K S L P A A L S A T E I E K S  
 541 ATT TCT GCT AGG TAA  
 181▶ I S A R •

FIG. 1

FIG. 2A
FIG. 2B

FIG. 2

1 ATG GAG ACA GAC ACA CTC CTG TTA TGG GTG CTG CTC TGG GTT OCA GGT TOC ACT GGT  
1▶  
SEQ ID 4 1▶ M E T D T L L L L W V L L L L W V P G S T G  
SEQ ID 3 61 GAC GTC ACG ATG TTG CAG ATG GCT GGG CAG TGC TOC CAA AAT GAA TAT TTT GAC AGT TTG  
1▶ M L Q M A G Q C S Q N E Y F D S L  
21▶ D V T M L Q M A G Q C S Q N E Y F D S L  
121 TTG CAT GCT TGC ATA OCT TGT CAA CTT OGA TGT TCT TCT AAT ACT OCT OCT CTA ACA TGT  
18▶ L H A C I P C Q L R C S S N T P P L T C  
41▶ L H A C I P C Q L R C S S N T P P L T C  
181 CAG CGT TAT TGT AAT GCA AGT GTG ACC AAT TCA GTG AAA GGA GTC GAC AAA ACT CAC ACA  
38▶ Q R Y C N A S V T N S V K G  
61▶ Q R Y C N A S V T N S V K G V D K T H T  
241 TGC OCA OCG TGC OCA GCA OCT GAA CTC CTG GGG GGA OCG TCA GTC TTC CTC TTC CCC OCA  
81▶ C P P C P A P E L L G G P S V F L F P P  
301 AAA OCC AAG GAC ACC CTC ATG ATC TOC OCG ACC OCT GAG GTC ACA TGC GTG GTG GTG GAC  
101▶ K P K D T L M I S R T P E V T C V V V D  
361 GTG AGC CAC GAA GAC OCT GAG GTC AAG TTC AAC TGG TAC GTG GAC GGC GTG GAG GTG CAT  
121▶ V S H E D P E V K F N W Y V D G V E V H  
421 AAT GCC AAG ACA AAG OCG OCG GAG GAG CAG TAC AAC AGC ACG TAC CGT GTG GTG AGC GTC  
141▶ N A K T K P R E E Q Y N S T Y R V V S V  
481 CTC ACC GTC CTG CAC CAG GAC TGG CTG AAT GGC AAG GAG TAC AAG TGC AAG GTC TTC AAC

FIG. 2A

161▶ L T V L H Q D W L N G K E Y K C K V S N  
 541 AAA GCC CTC OCA GCC CCC ATC GAG AAA ACC ATC TOC AAA GCC AAA GGG CAG CCC OGA GAA  
 181▶ K A L P A P I E K T I S K A K G Q P R E  
 601 OCA CAG GTG TAC ACC CTG CCC OCA TOC OGG GAT GAG CTG ACC AAG AAC CAG GTC AGC CTG  
 201▶ P Q V Y T L P P S R D E L T K N Q V S L  
 661 ACC TGC CTG GTC AAA GGC TTC TAT CCC AGC GAC ATC GCC GTG GAG TGG GAG AGC AAT GGG  
 221▶ T C L V K G F Y P S D I A V E W E S N G  
 721 CAG CCG GAG AAC AAC TAC AAG ACC AOG OCT OCC GTG TTG GAC TOC GAC GGC TOC TTC TTC  
 241▶ Q P E N N Y K T T P P V L D S D G S F F  
 781 CTC TAC AGC AAG CTC ACC GTG GAC AAG AGC AGG TGG CAG CAG GGG AAC GTC TTC TCA TGC  
 261▶ L Y S K L T V D K S R W Q Q G N V F S C  
 841 TOC GTG ATG CAT GAG GCT CTG CAC AAC CAC TAC ACG CAG AAG AGC CTC TOC CTG TCT CCC  
 281▶ S V M H E A L H N H Y T Q K S L S L S P  
 901 GGG AAA TGA  
 301▶ G K •

FIG. 2B

1 AAGACTCAAA CTTAGAAACT TGAATTAGAT GTGGTATTCA AATCCTTACG TGCCGCGAAG  
 61 ACACAGACAG CCCCCGTAAG AACCCACGAA GCAGGCGAAG TTCATTGTTC TCAACATTCT  
 EcoRI  
 121 AGCTGCTCTT GCTGCATTTG CTCTGGAATT CTTGTAGAGA TATTACTTGT CCTTCCAGGC  
 SfiI BclI  
 181 TGTTCCTTCT GTAGCTCCCT TGTTCCTTTT TTGTGATCAT GTTGCAGATG GCTGGGCAGT  
 1► M L Q M A G Q  
 SspI SphI HincII  
 241 GCTCCCAAAA TGAATATTTT GACAGTTTGT TGCATGCTTG CATACTTGT CAACTTCGAT  
 8► C S Q N E Y F D S L L H A C I P C Q L R  
 Pci I  
 AflIII  
 301 GTTCTTCTAA TACTCCTCCT CTAACATGTC AGCGTTATTG TAATGCAAGT GTGACCAATT  
 28► C S S N T P P L T C Q R Y C N A S V T N  
 BsmFI  
 361 CAGTGAAAGG AACGAATGCG ATTCTCTGGA CCTGTTTGGG ACTGAGCTTA ATAATTTCTT  
 48► S V K G T N A I L W T C L G L S L I I S  
 421 TGGCAGTTT CGTGCTAATG TTTTGTCTAA GGAAGATAAG CTCTGAACCA TTAAAGGACG  
 68► L A V F V L M F L L R K I S S E P L K D  
 DraI AclI BsaI  
 481 AGTTTAAAAA CACAGGATCA GGTCTCCTGG GCATGGCTAA CATTGACCTG GAAAAGAGCA  
 88► E F K N T G S G L L G M A N I D L E K S  
 XmnI StuI XhoI  
 541 GGAAGTGGTA TGAAATTATT CTTCCGAGAG GCCTCGAGTA CACGGTGGAA GAATGCACCT  
 108► R T G D E I I L P R G L E Y T V E E C T  
 Sall  
 HincII  
 BbsI AccI  
 601 GTGAAGACTG CATCAAGAGC AAACCGAAGG TCGACTCTGA CCATTGCTTT CCACTCCCAG  
 128► C E D C I K S K P K V D S D H C F P L P  
 661 CTATGGAGGA AGGCGCAACC ATTCTTGTCA CCACGAAAAC GAATGACTAT TGCAAGAGCC  
 148► A M E E G A T I L V T T K T N D Y C K S  
 PvuII  
 721 TGCCAGCTGC TTTGAGTGCT ACGGAGATAG AGAAATCAAT TTCTGCTAGG TAATTAACCA  
 168► L P A A L S A T E I E K S I S A R  
 XhoI DraI BglII  
 781 TTTGACTCG AGCAGTGCCA CTTTAAAAAT CTTTGTGTCAG AATAGATGAT GTGTCAGATC  
 841 TCTTTAGGAT GACTGTATTT TTCAGTTGCC GATACAGCTT TTTGTCTCT AACTGTGGAA  
 Styl  
 901 ACTCTTTATG TTAGATATAT TTCTCTAGGT TACTGTTGGG AGCTTAATGG TAGAAACTTC  
 961 CTTGGTTTCA TGATTAAAGT CTTTTTTTTT CTGA

FIG. 3

STRUCTURE COMPARISON BETWEEN TNF-R55 AND BAFF-R

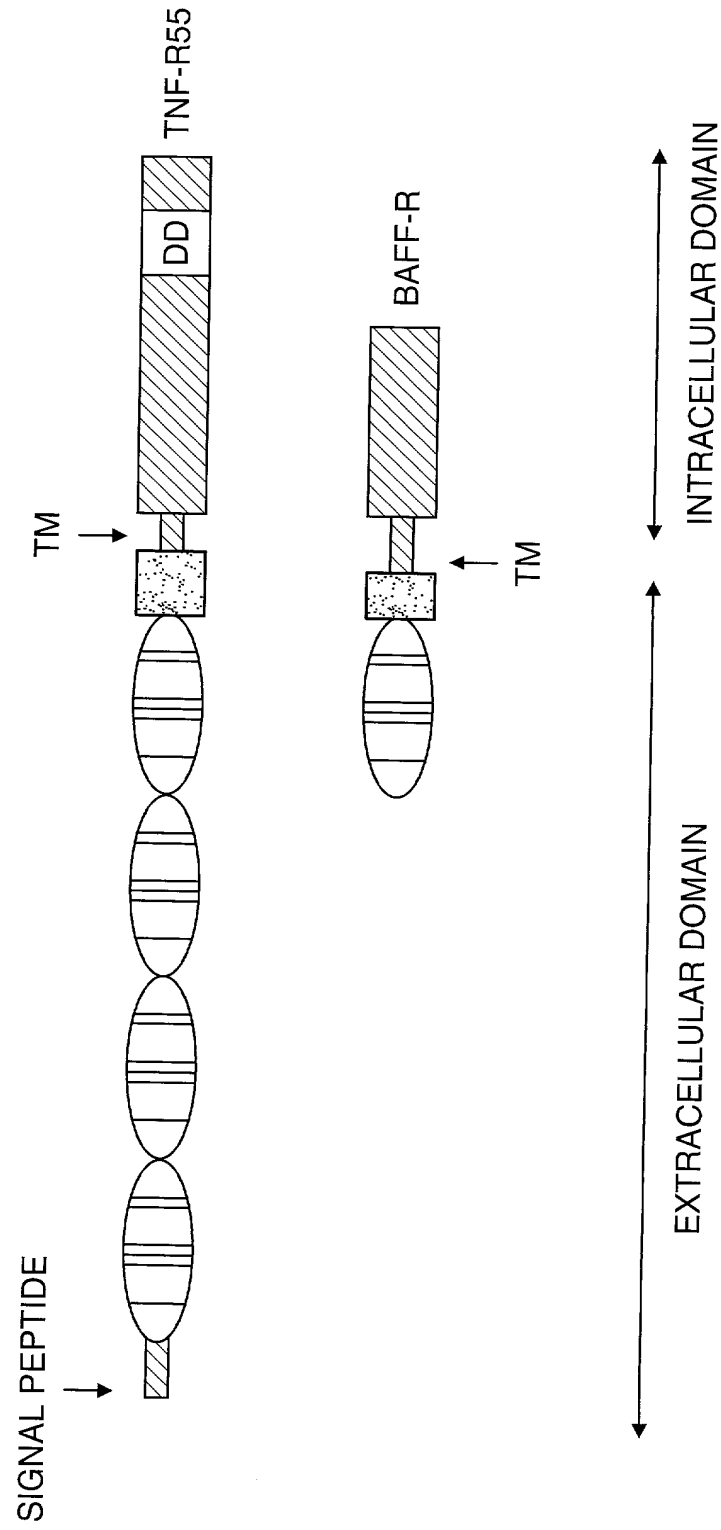


FIG. 4

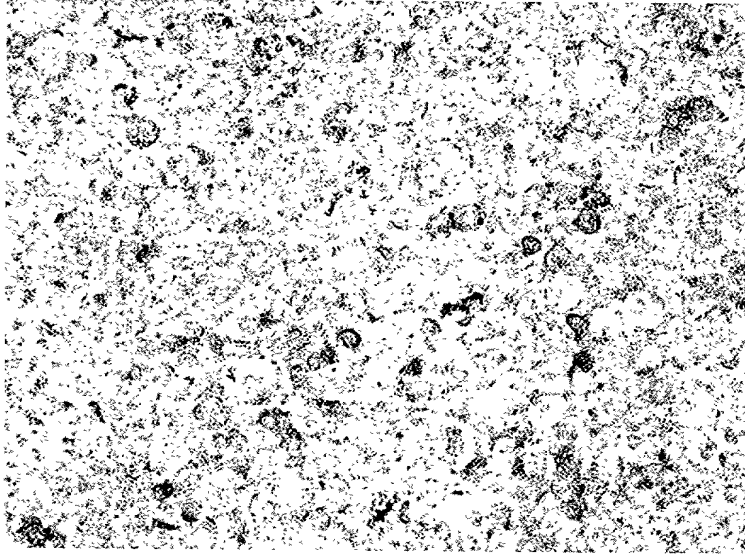


FIG. 5A

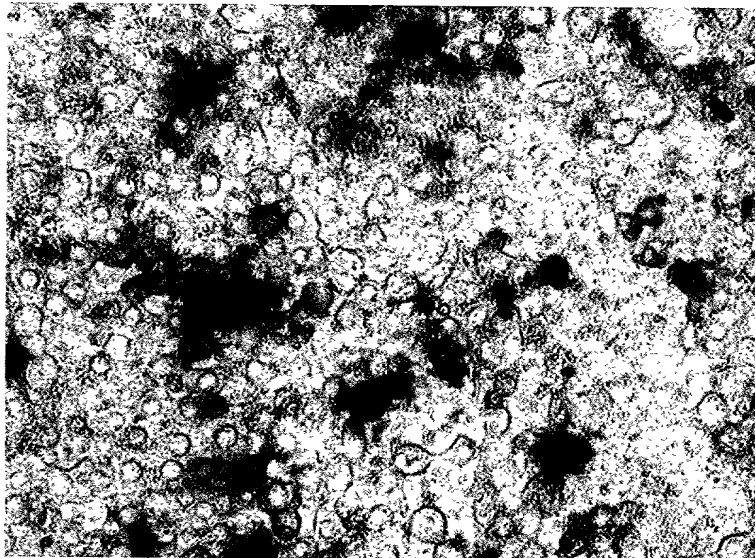


FIG. 5B

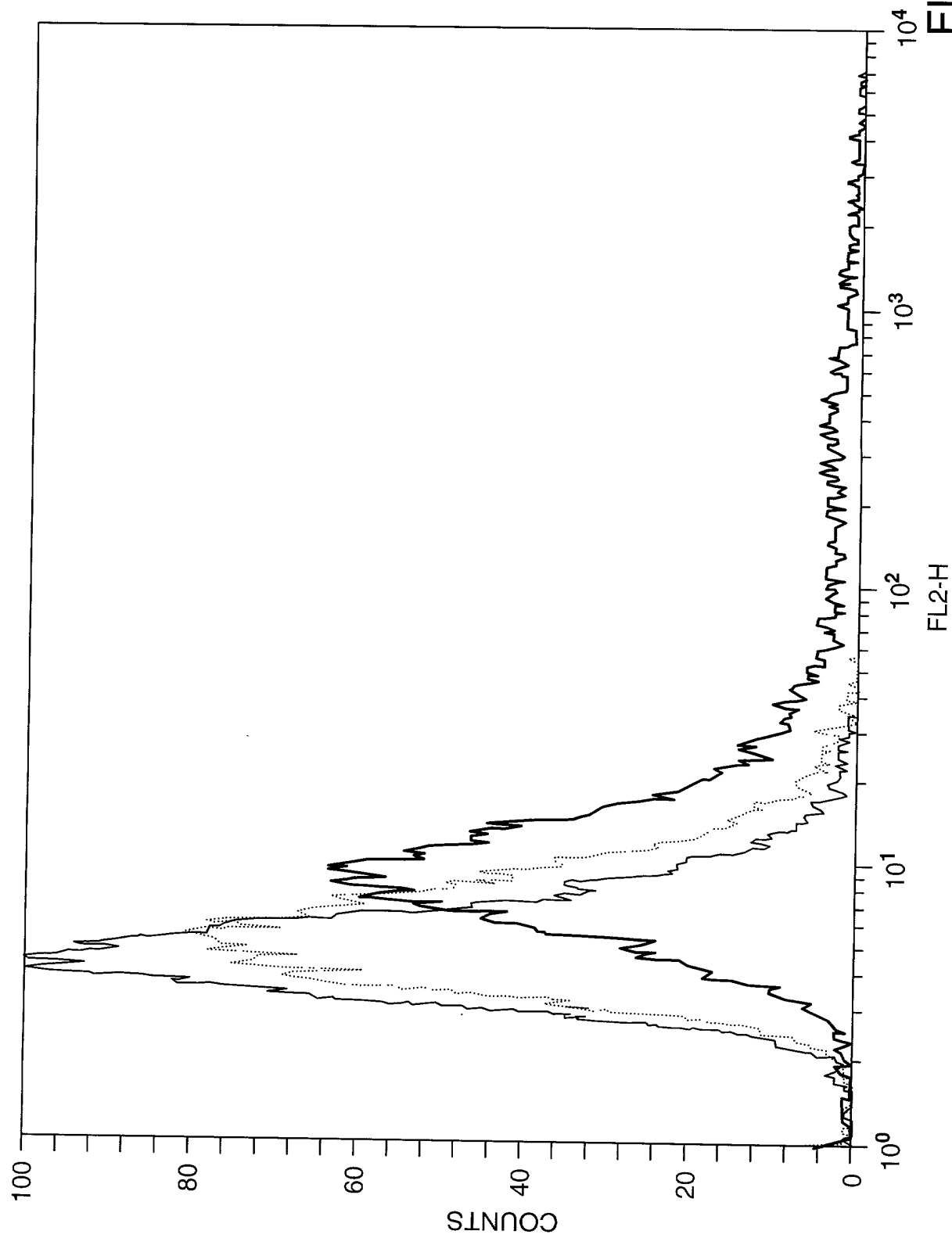
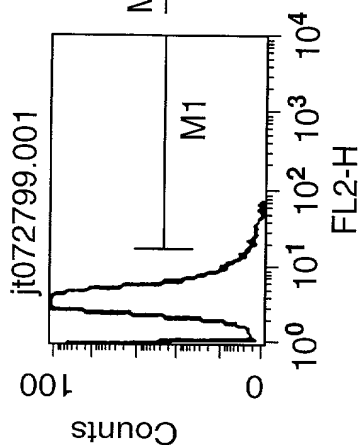
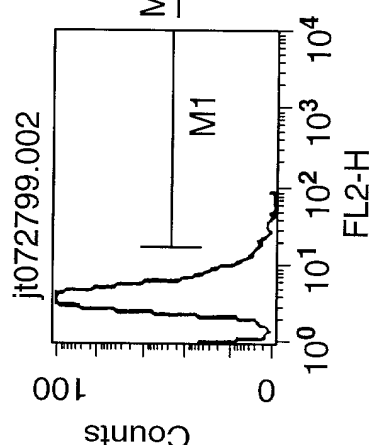


FIG. 6A



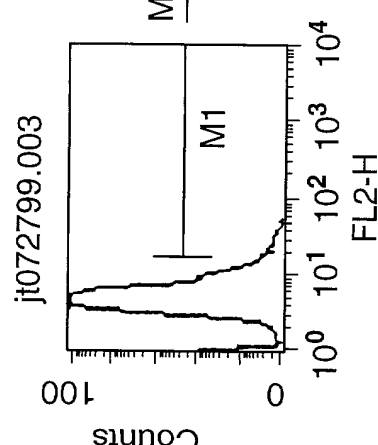
Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	4.26	3.80	61.34	3.65
M1	17.	9910	65	0.65	0.65	23.23	22.44	30.37	20.35

FIG. 6B-1



Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	4.61	4.11	61.98	3.89
M1	17.	9910	79	0.79	0.79	22.88	21.98	34.94	19.63

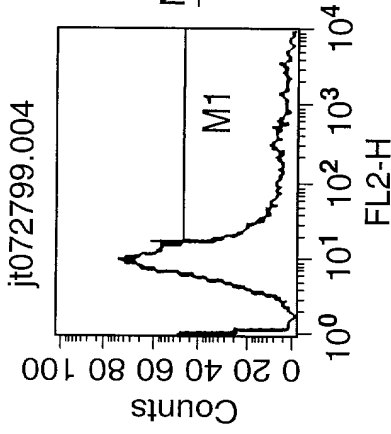
FIG. 6B-2



Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	5.51	4.93	58.41	4.66
M1	17.	9910	130	1.30	1.30	23.55	22.98	23.39	22.57

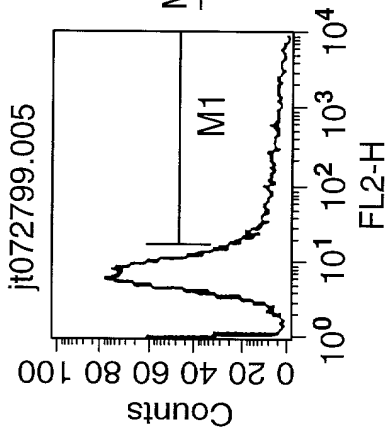
FIG. 6B-3





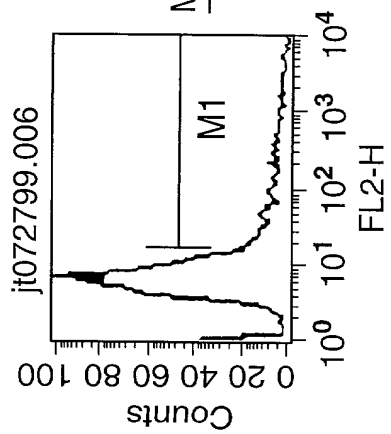
Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	108.24	15.40	459.27	10.27
M1	17.	9910	2785	27.85	27.85	366.10	85.21	243.61	45.32

FIG. 6B-4



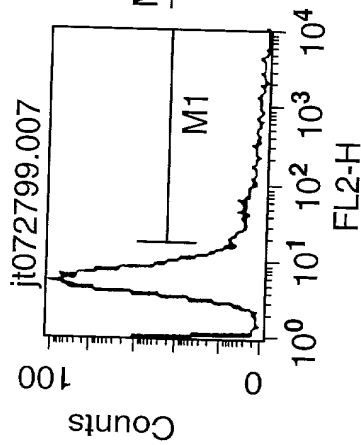
Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	72.53	11.42	516.47	7.84
M1	17.	9910	2054	20.54	20.54	324.52	88.86	239.37	61.80

FIG. 6B-5



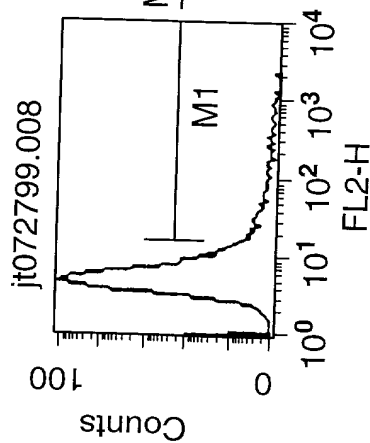
Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	51.15	9.41	566.98	6.67
M1	17.	9910	1673	16.73	16.73	272.40	81.97	244.63	54.25

FIG. 6B-6



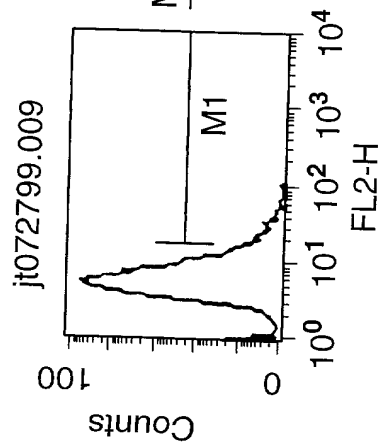
Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	26.59	7.74	576.94	5.94
M1	17.	9910	1313	13.13	13.13	161.35	60.77	246.67	42.94

FIG. 6B-7



Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	12.39	6.54	405.32	5.47
M1	17.	9910	876	8.76	8.76	78.94	43.41	195.84	33.68

FIG. 6B-8



Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	6.99	6.60	69.06	5.67
M1	17.	9910	393	3.93	3.93	24.33	23.31	33.78	21.48

FIG. 6B-9

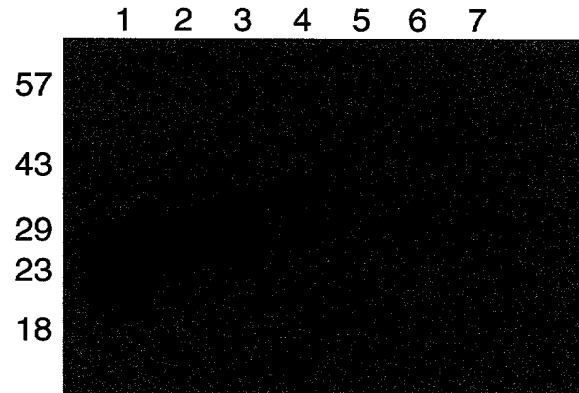


FIG. 7

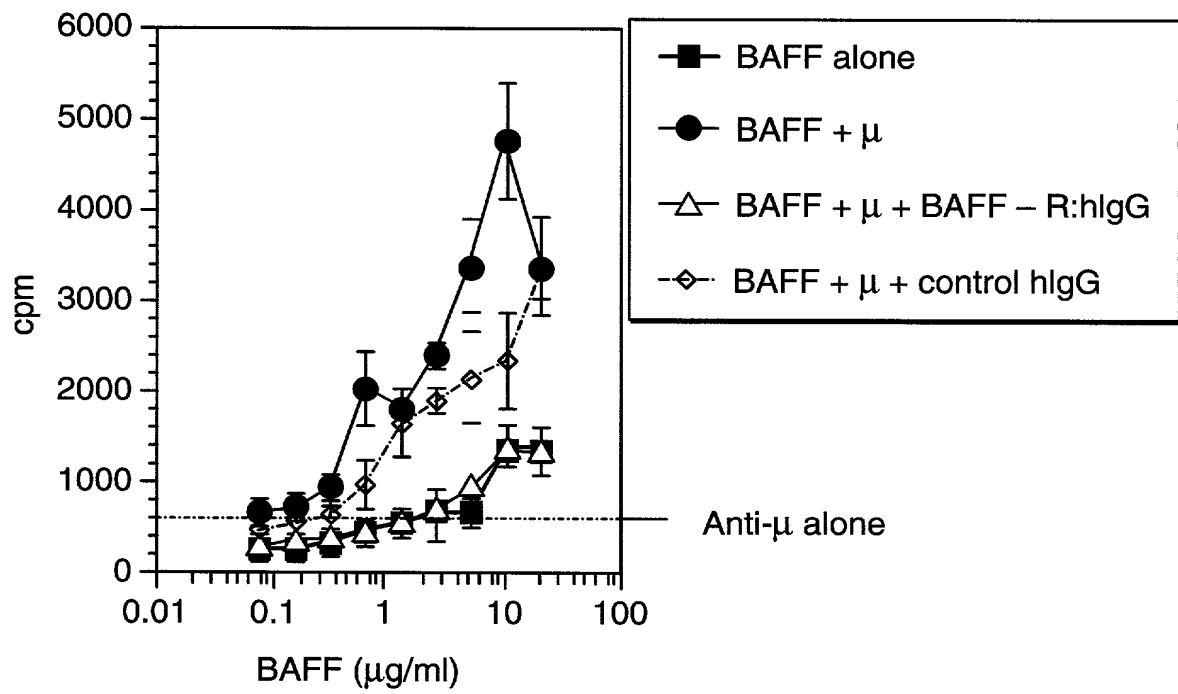


FIG. 8

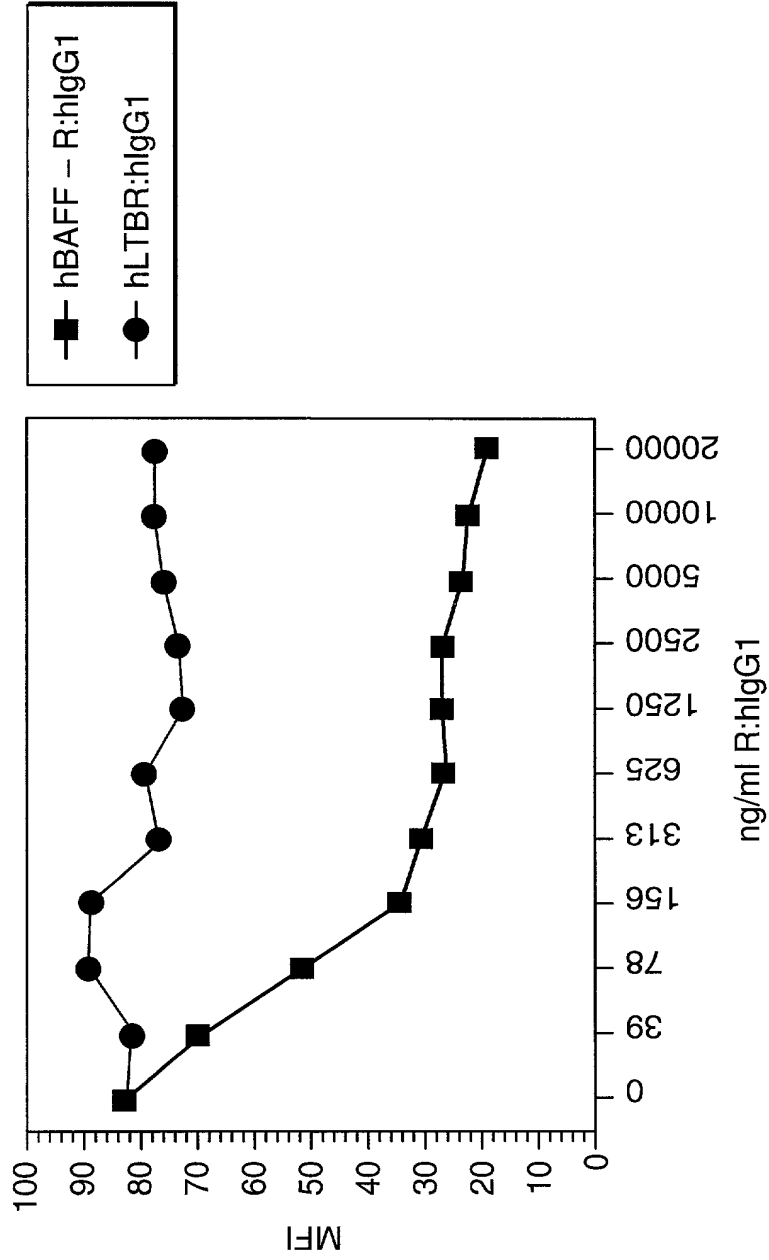


FIG. 9

FIG. 10A

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**BCMA-Ig Treatment Reduces Total CD1<sup>hi</sup>/IgM<sup>hi</sup>  
B Cell Populations in Spleens of Baff Tg Mice**

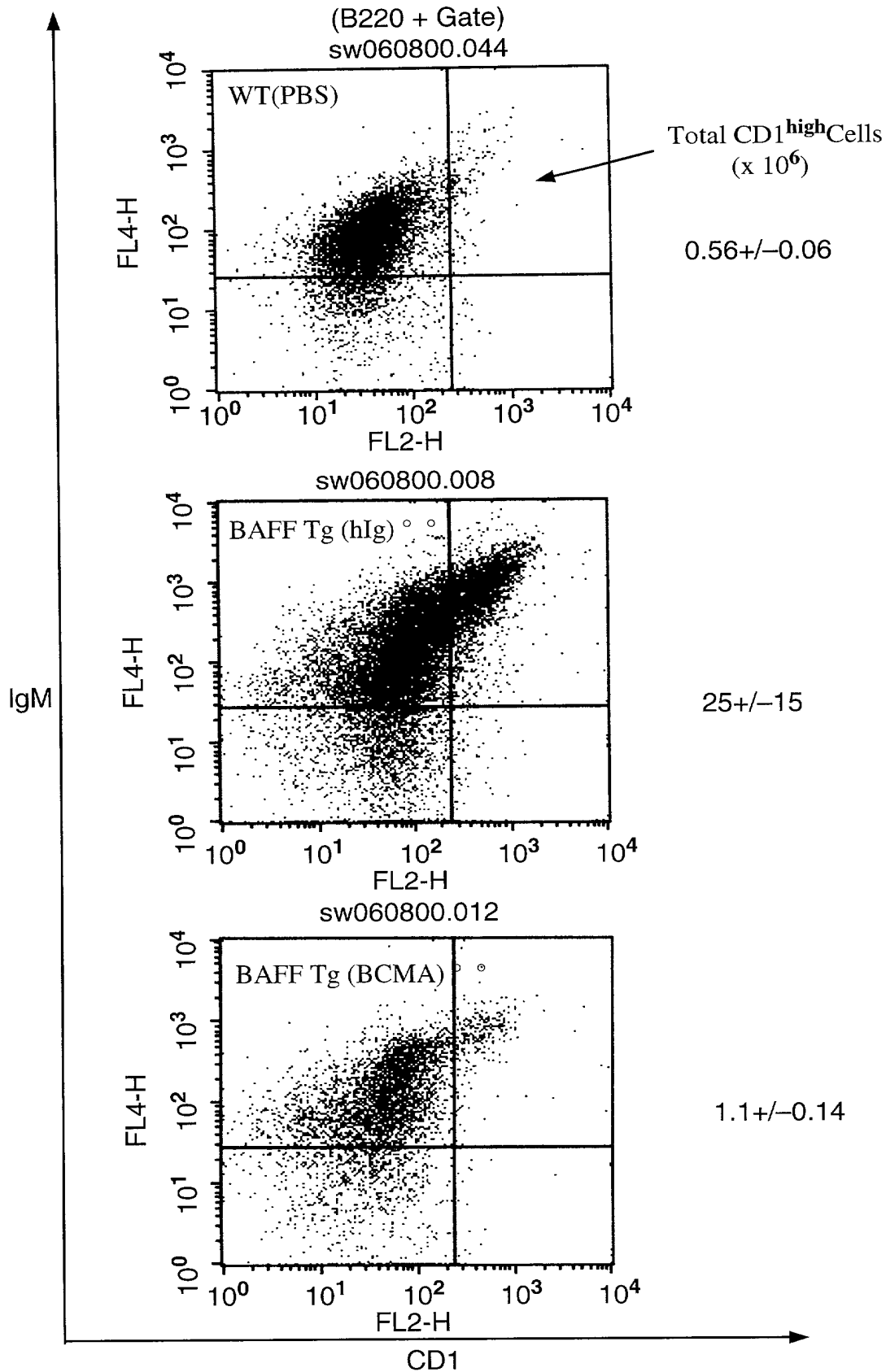


FIG. 10B

**BCMA-Ig Treatment Reduces Total Mature B  
and T2 B Cell Populations in Spleens of Baff Tg Mice**

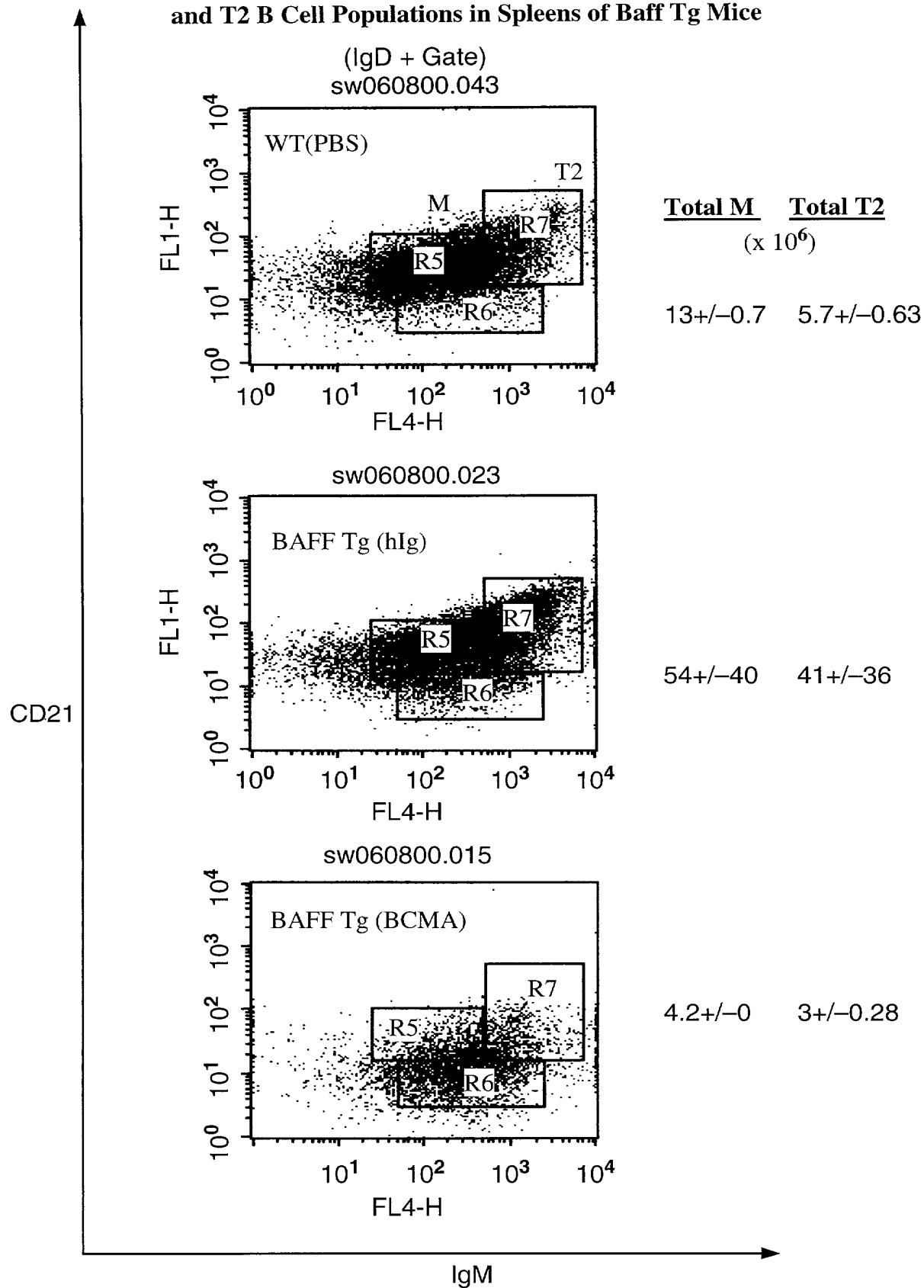
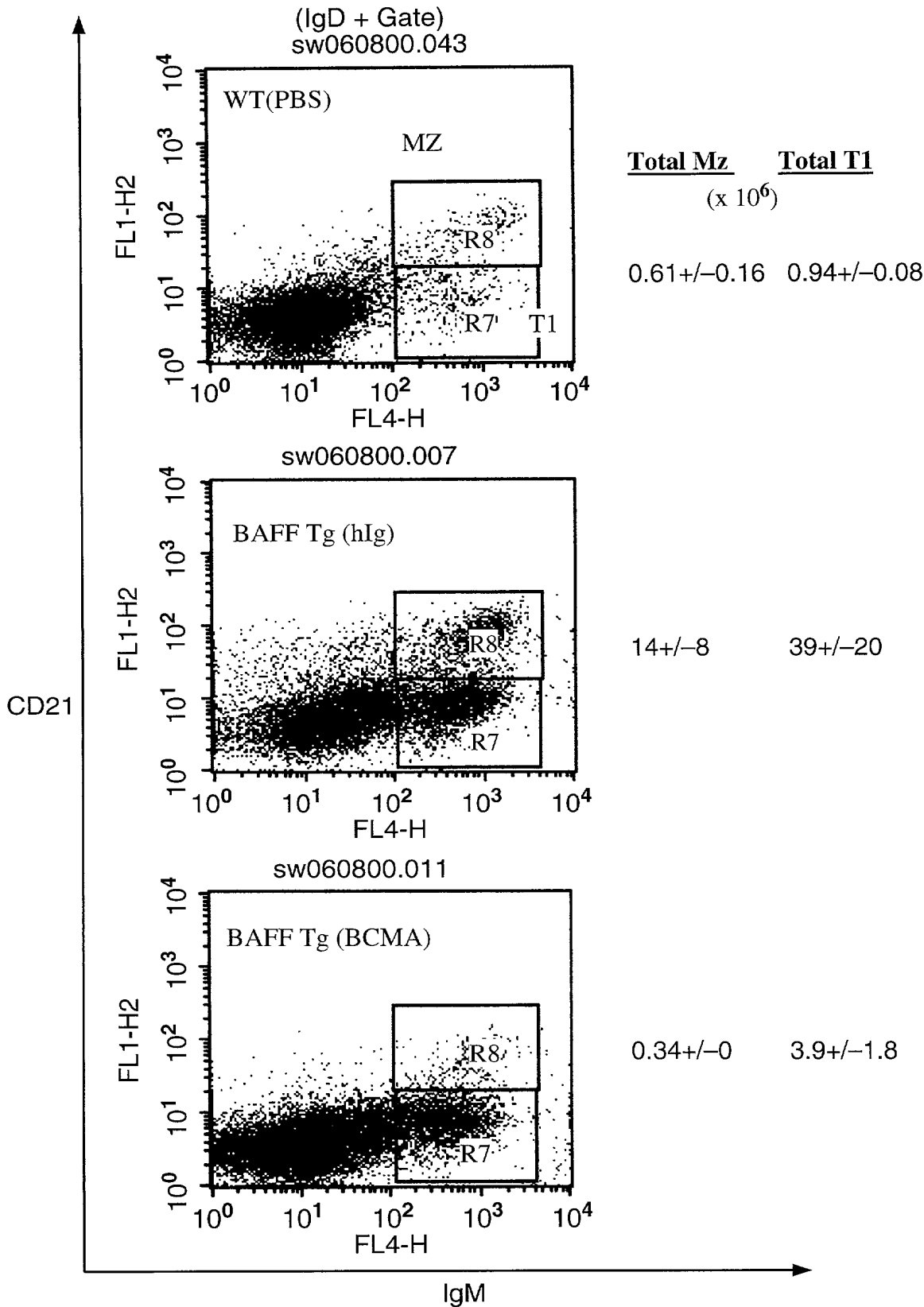
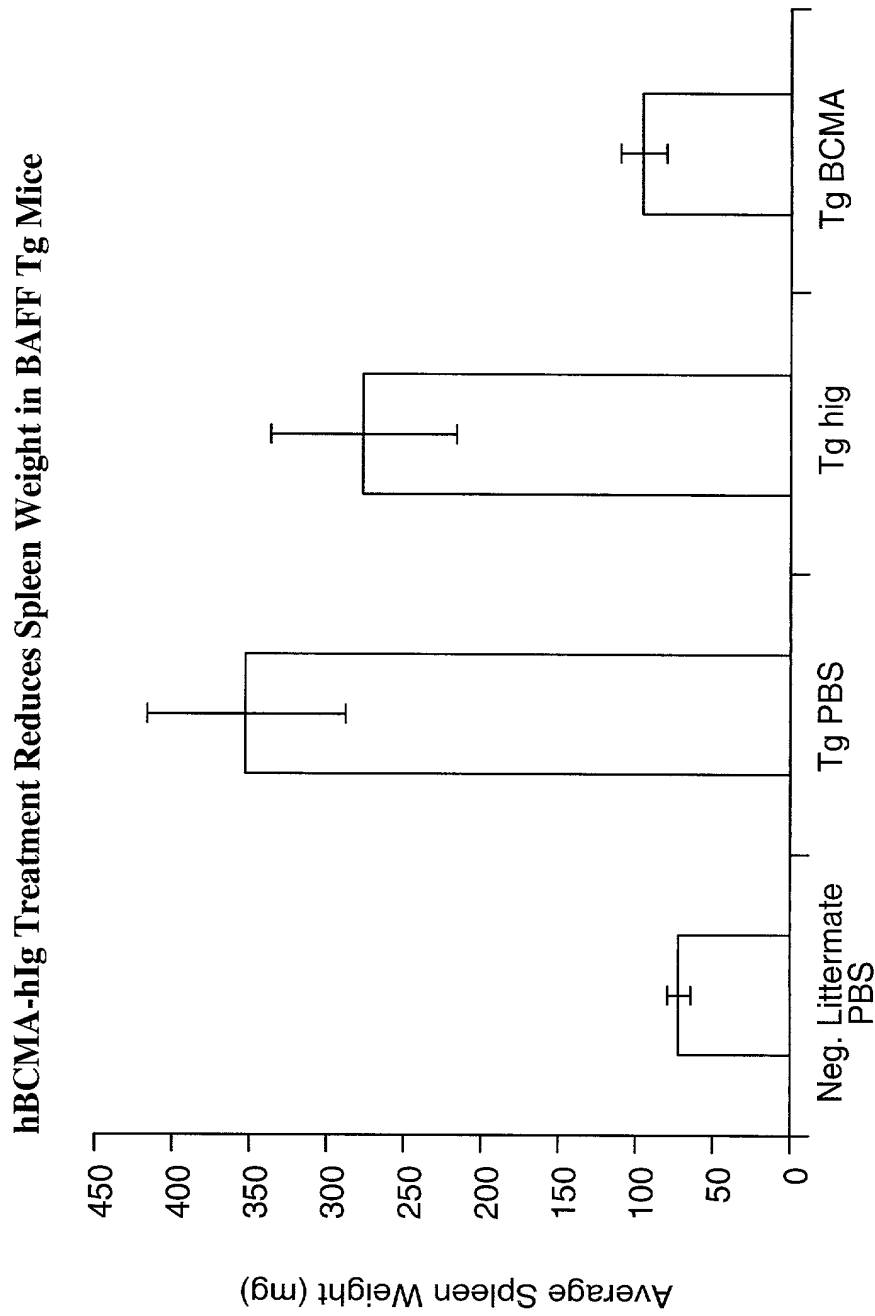


FIG. 10C

BCMA-Ig Treatment Reduces Total Marginal Zone  
and T1 B Cell Populations in Spleens of Baff Tg Mice

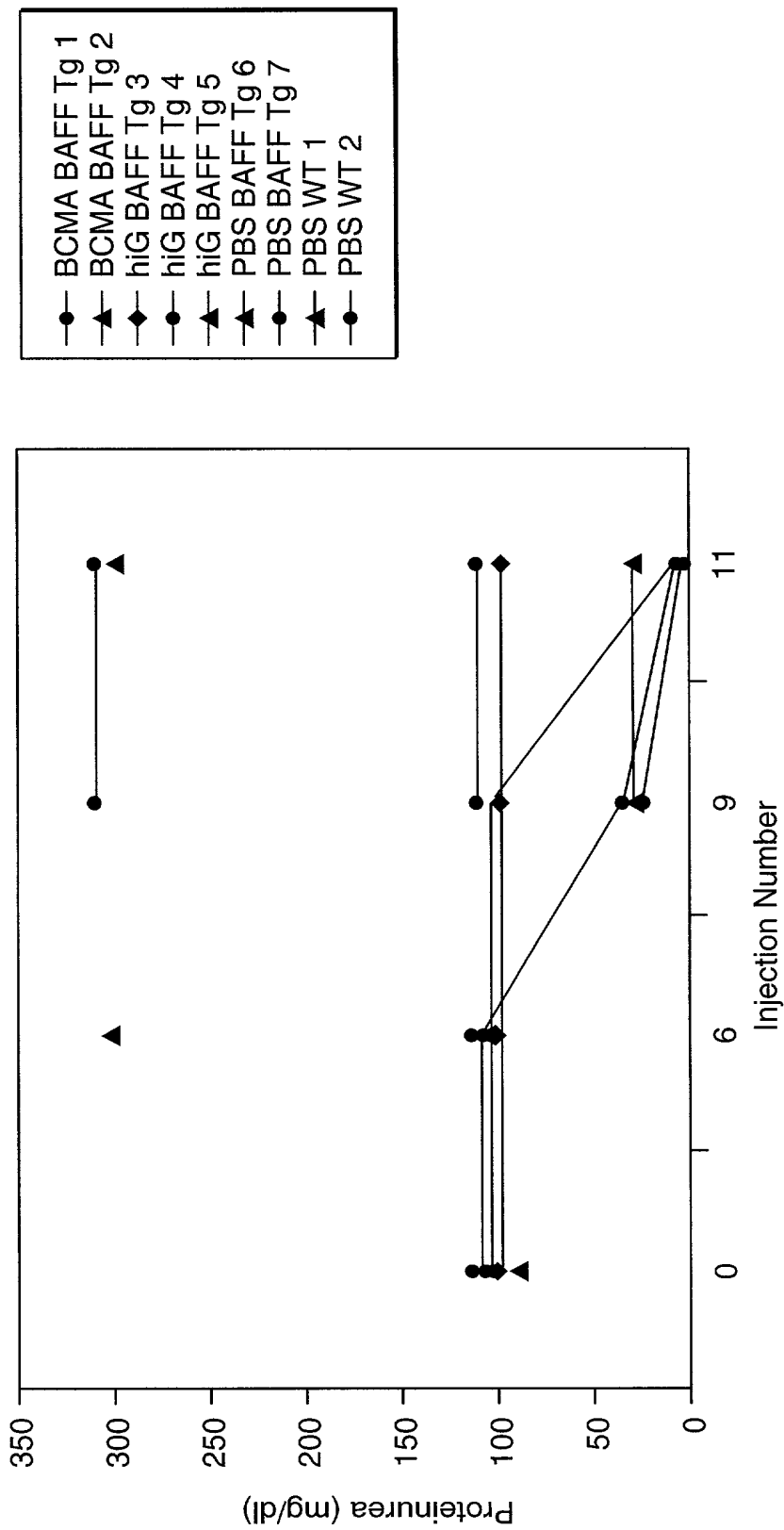




**FIG. 11**



**BCMA-Ig Treatment Reduces Proteinuria in BAFF Tg Mice to Levels Comparable to Wildtype Mice**



**FIG. 12**

**Average Mean Arterial Pressure in BAFF transgenic  
(BAFF +) and wild-type controls (BAFF -)**

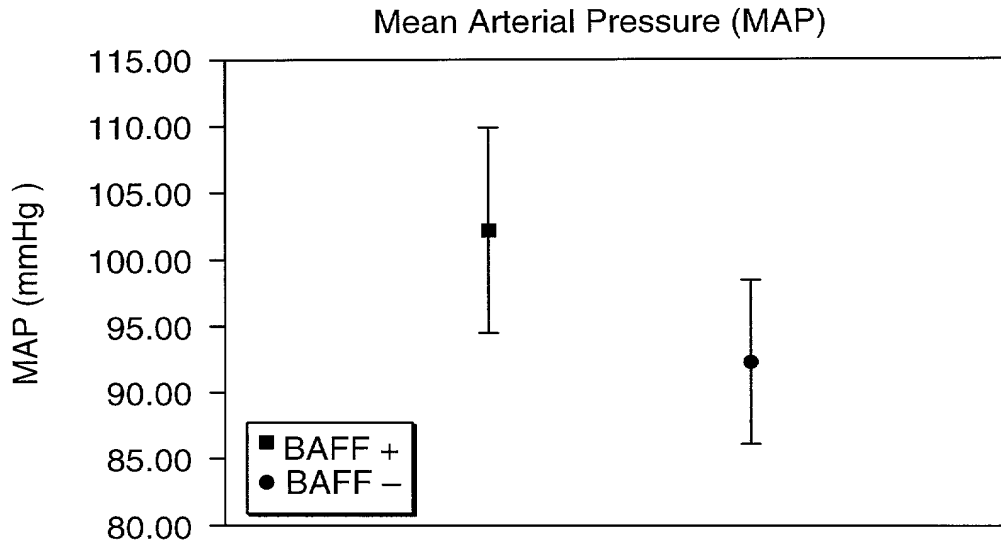


FIG. 13

**Individual Mean Arterial Pressure in BAFF transgenic  
(BAFF +) and wild-type controls (BAFF -)**

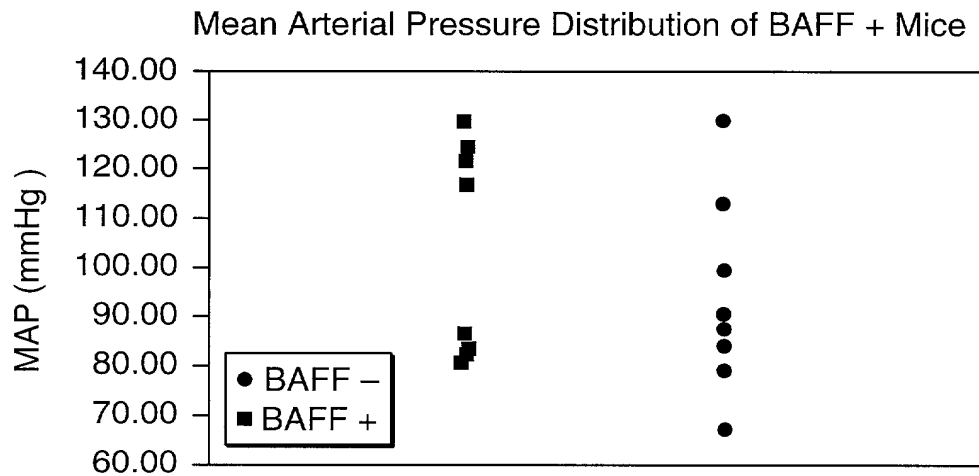


FIG. 14

BCMA-Ig Treatment of Moderately Nephritic SNF1 Mice  
Slows Progression to Severe Nephritis

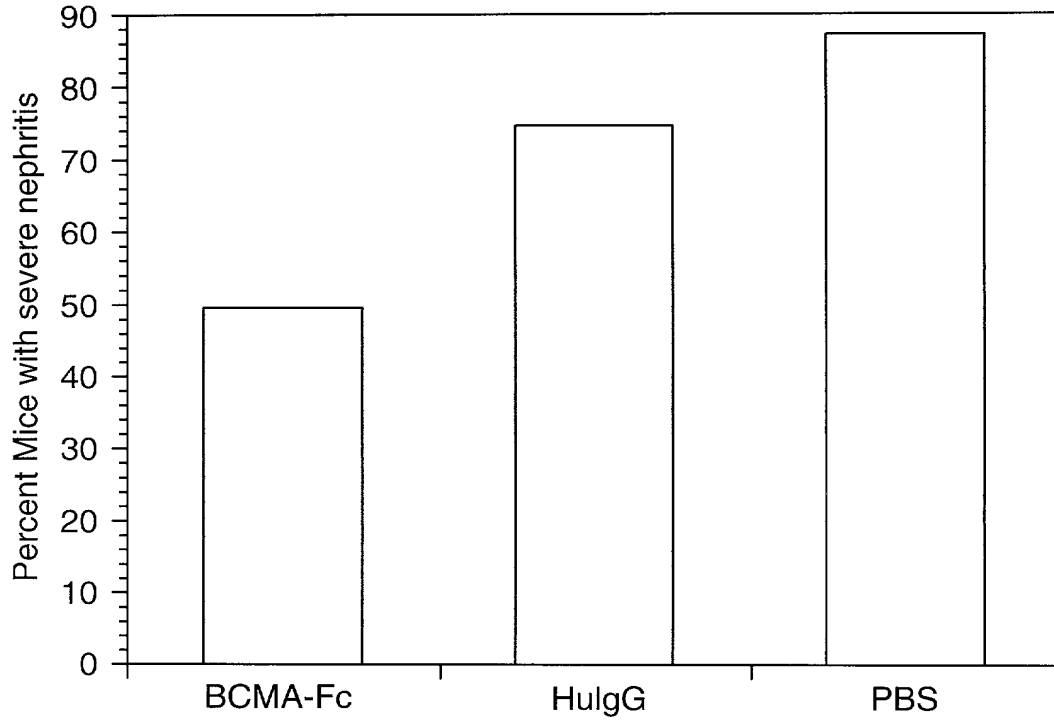


FIG. 15

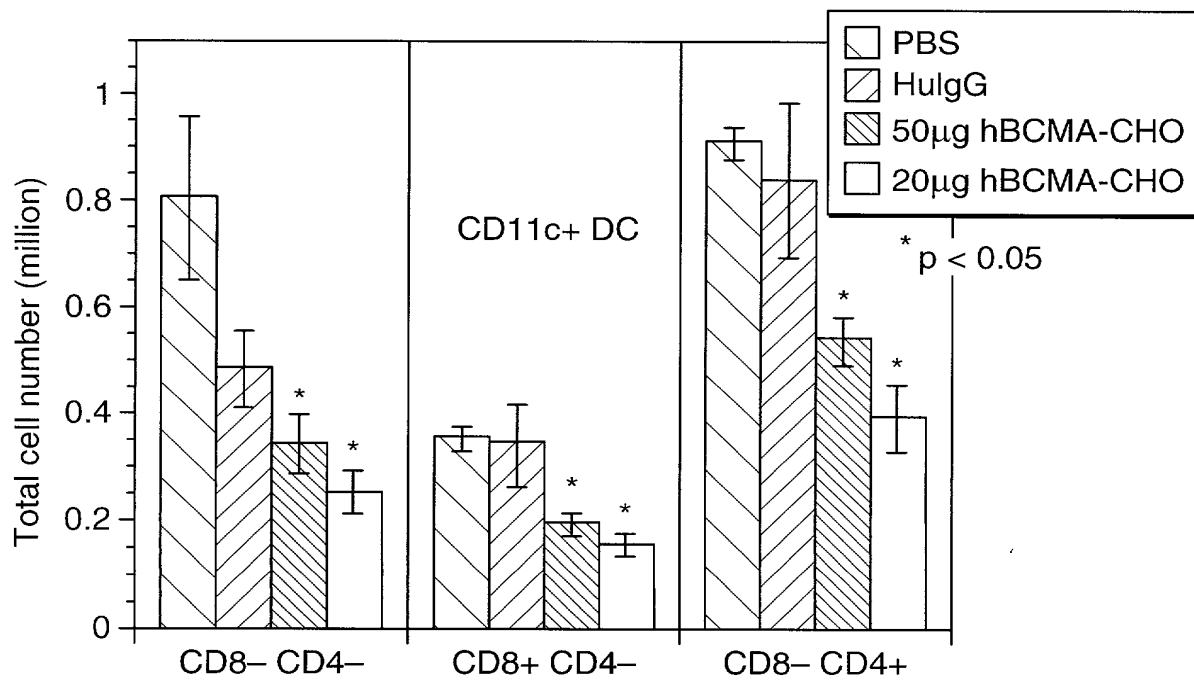


FIG. 16